

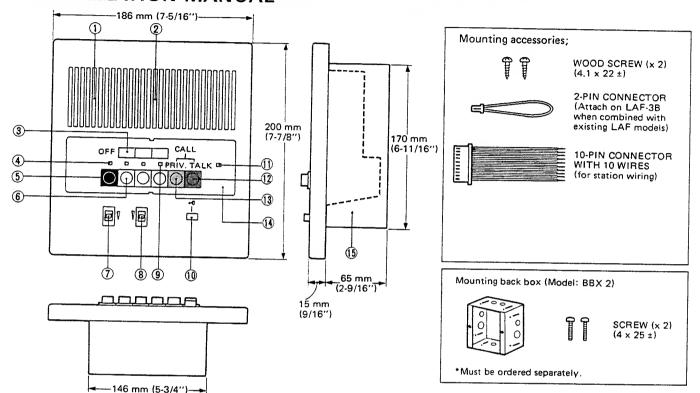
HOME INTERCOM

MODEL:

LAF-3B

Master station 3-call semi-flush mount

INSTALLATION MANUAL





NAMES AND FUNCTIONS

- Microphone
- ② Speaker
- 3 Directory card
- 4 Station selection indicator LED
- ⑤ OFF button
- 6 Station selector button
- ⑦ Communication volume control
- 8 Call tone volume control

- 10 Door release button
- ① OCCUPIED LED
- 12 TALK button
- (3) PRIVACY button
- (4) Panel
- 15 Mounting back box (Model: BBX-2)



SYSTEM FEATURES

- 1. Versatile communication system. Either All-master, Single-master or Intermixed System can be created.
- 2. Intermixable masters and subs, either semi-flush mount (LAF-B) or desk/wall mount type (LAF).
- 3. Can receive All Call announcement and Background music.
- 4. Sub call-in annunciator LED stays lit for approx. 20 seconds.
- 5. During your communication, sub call-in can be signalled by soft tone.
- 6. Options: * Door station (any number). * Door release, using RY-PA relay.
 - * Paging thru an 8-ohm horn with talkback.



BEFORE YOU INSTALL AND OPERATE THE EQUIPMENT

- Prohibitions and precautions -

*Operation:

- On all LAF master stations, except station initiating a call, OFF button MUST BE DEPRESSED and LOCKED DOWN, or system will not work. The illuminated LED above OFF button indicates you forget to depress OFF button, if not in use.
- 2. The illuminated OCCUPIED LED indicates the other station is using the system. While this OCCUPIED LED is lit.
 - (1) Do not depress any selector button. The squeak sound will come out at initiating and receiving stations.
 - So, when you receive calls from another master and a sub at the same time, REPLAY FIRST TO THE MASTER and, after the OCCUPIED LED goes out, depress a selector button of the calling sub and communicate.
 - (2) Do not make All Call nor any other operation, when LAF-B units are intermixed with existing models (LAF-3A/5/10/10S/10B/10BS).
- 3. When a sub station calls during Background music distribution, the call tone will come out through all LAF station speakers, and call-in annunciator LED stays lit for approximately 20 seconds on the called master station.

*Installation;

- 1. DO NOT CONNECT ANY TERMINAL ON ANY UNIT TO AC POWER LINES.
- 2. Be sure not to plug power supply into AC receptacle until you complete wiring connections and unplug before opening the unit.
- 3. Lay out your system in advance. Determine the exact location of each station. Assign station number and make a sketch showing the number of wires and color codes from one station to another. Begin your installation with master station No. 1. Upon installing second master station, we recommend a test be made for all functions, calling and talking between each station.
 - After completing all the masters connection and testing, begin sub station installation.
- 4. Insulate by tape, etc. each unused connector wire end. If touches the other wires or back box it will cause damage to the units.

Installation location;

- 5. Select the installation locations that would not be exposed to temperature/ humidity extremes, water, oil, dust, iron dust, inflammable and chemical products, etc.
- To avoid feedback, DO NOT PLACE MASTER STATION AND ANOTHER MASTER OR SUB STATION BACK TO BACK, OR ON A COMMON WALL BETWEEN ROOMS.

Unit selection:

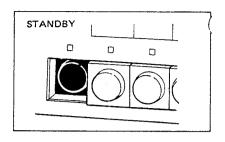
- 7. When making an intermixed system, note in advance that master stations: LAF-3A, LAF-5, LAF-10 console type have no button for All Call nor door release. LAF-1B and LAF-3B have only door release button. If such functions are required at console type station, please use LAF-10S.
- 8. If any LAF-B station: LAF-1B/3B/7B/10B (Type A) is intermixed with existing models: LAF-3A/5/10/10S/10B, install a 2-pin supplied connector on back of all the LAF-B units.

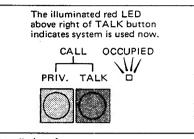
Adaptor installation location;

- 9. Locate PS-12A (or PS-12C) power supply near center of the system.
- 10. Locate BG-1A/1B adaptor near by the power supply.

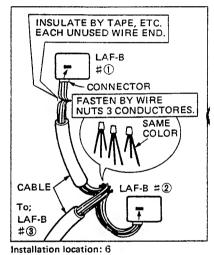
*Maintenance;

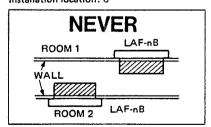
1. Clean your equipment with a soft cloth dampened with neutral household cleanser. Never use thinne nor benzine, etc.



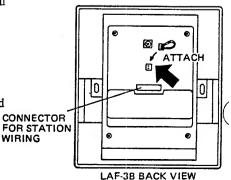


Installation: 4





Unit selection: 8



*Volume adjustment;

LAF-B unit has pre-setting volume, allowing to lower the maximum level of communication. On back of LAF-3B unit, using a philip screwdriver, turn the volume counter-clockwise to achieve the desired level.

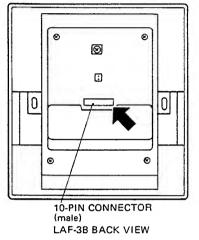
On front panel, LAF-B unit has two volume controls for communication and call tone, each adjustable to three levels as desired.

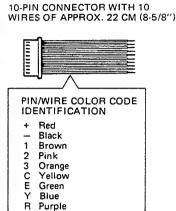
TO LOWER MAX. COMMUNICATION VOLUME





ACTUAL TERMINAL LOCATION





Gray

+ , = : for power supply

 \Box

E

Y

 $\boxed{1} \sim \boxed{3}$: for connecting station unit : for receiving a call and BGM

: for common communication

for sub's call-in tone during

communication

R : for occupied LED

: for door release

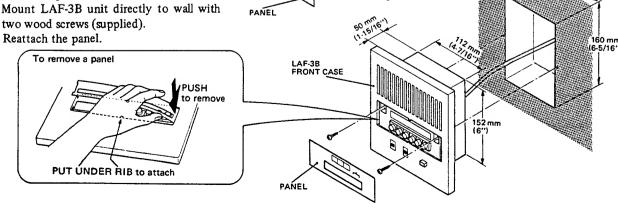


INSTALLATION

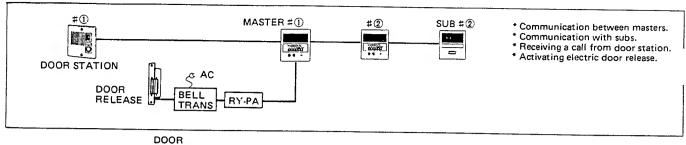
(1) Semi-flush mounting to wall (in new construction); For new construction, use a mounting back

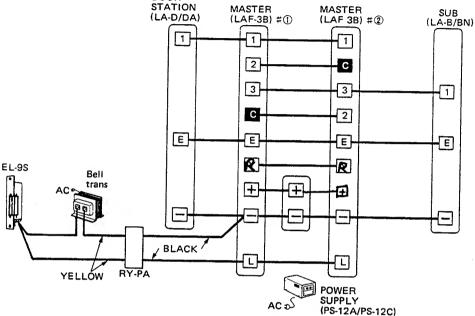
box (Model BBX-2).

- 1. Install the back box in the wall.
- 2. Remove a panel on LAF-3B front case.
- 3. Mount LAF-3B unit to the back box with two screws (supplied).
- 4. Reattach the panel.
- (2) Semi-flush mounting to an existing wall;
 - 1. To install LAF-3B unit to an existing wall, cut and open a hole of H: 160 mm (6-5/16") x W: 116 mm (4-9/16"), securing depth of more than 50 mm (1-15/16").
 - 2. Remove a panel on LAF-3B. Mount LAF-3B unit directly to wall with
- 3. Reattach the panel.



#(3) LAF-3B INTERMIXED SYSTEM





- NOTES;
 ① LAF-3B master station can call and communicate with each other, and also with door station & sub.
- 2 Door release can be activated by either LAF-3B master, answering door-phone call.

 3 Door station call-in tone
- sounds softly at a communicating master station.

CONNECTOR WIRE COLOR CODES

COLON CODES			
10	+	Red	
P	_	Black	
ì	1	Brown	
2(0	2	Pink	
	3	Orange	
w	C	Yellow	
-œш«)	Ε	Green	
	Υ	Blue	
	R	Purple	
	L	Gray	

LA-B/LA-BN CONNECTOR WIRE COLOR CODES

3-P P W	-	Black
NR	E	Blue
N R S S	1	Brown



*Power source:

DC 12V. Use PS-12A (or PS-12C in North America) power supply.

*Current consumption:

350 mA maximum.

*Communication:

Press-to-talk, release-to-listen at calling master.

*Communication output:

800 mW maximum at 20 ohm.

*Communication network:

Either of All-Master, Single-Master or Intermixed System can be created. Electronic tone and an illuminated LED (staying lit for approx. 20 seconds), when called by sub

*Calling:

Electronic tone or Voice direct when called by master (at master) Electronic tone or Voice direct when called by master (at sub).

*Talk channel:

1 talk channel.

*Wiring:

1 Between master stations;

	Between masters	Between masters & BG-1A/1B
For communication only	5 common + 1 individual	
For communication and BGM reception	5 common + 1 individual	4 common + 1 individual
For door release	Plus 1 common (additional)	
For all functions as avobe	6 common + 1 individual	4 common + 1 individual

2 Between sub station; 3 wires for each sub station.

*Wiring distance:

Between two farthest master/sub stations;

AWG	24 AWG	22 AWG	20 AWG
Distance	400′	650'	1,000′
Diameter	0.5 mm	0.65 mm	0.8 mm
Distance	120 m	200 m	300 m

*Dimensions:

H: 200 mm x W: 186 mm x D: 15 mm

(H: 7-7/8" x W: 7-5/16" x D: 9/16")

Recessed: $H:152 \text{ mm} \times W:112 \text{ mm} \times D:50 \text{ mm}$

(H:6" × W: 4-7/16" × D: 1-15/16")

*Weight:

Approximately 480 g (1.06 lbs.).

*RY-PA relay contact

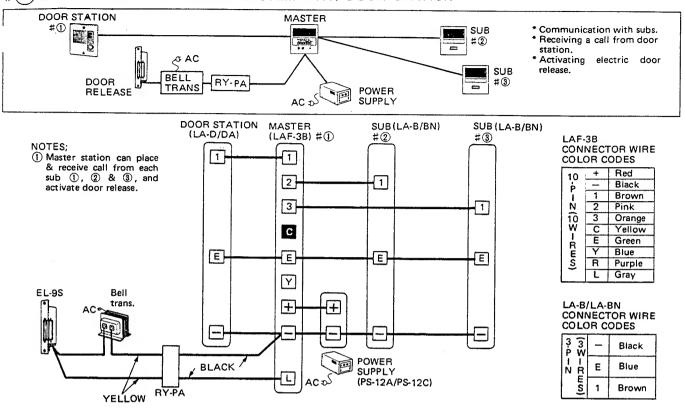
capacity:

AC 110V, 1A. DC 24V, 1A.

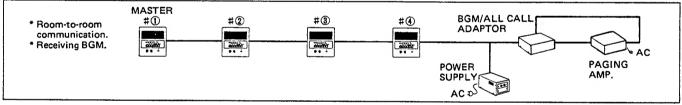


WIRING DIAGRAM

#(1) LAF-3B MASTER SELECTIVE SYSTEM WITH DOOR STATION



#(2) LAF-3B ALL-MASTER SYSTEM WITH BACKGROUND MUSIC





Background music can be received at each station (All call announcement is not available from LAF-3B).

LAF-3B CONNECTOR WIRE COLOR CODES

10-P-N10	+	Red
	_	Black
	1	Brown
	2	Pink
	3	Orange
W	_C	Yellow
-Emo)	Ε	Green
	Y	Blue
	R	Purple
	L	Gray

